

# Calculation and Posting of ATC and TTC

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## The ATC Calculation

Available Transfer Capability

- =Total Transfer Capability
- -Transmission Interface Flow Utilization
- -TRM
- -CBM



## **Total Transfer Capability**

#### **Y** TTC values are:

- Thermal, Voltage and/or Stability Limits
- And are based on Offline studies in addition to real time monitoring

## Posted TTC includes an operating margin

- Typically100MWs applied to each interface
- Used in lieu of a Transmission Reliability Margin

## **Available Transfer Capability**

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 "a measure of transfer capability remaining in the physical transmission network for further commercial activity over and above already committed uses."

#### ≥ ATC values determined by

- SCUC Evaluation Day-Ahead
- BME Evaluation Hour-Ahead

#### ■ Reservations ??



## **ATC Calculation**



ATC=TTC-Transmission Interface Flow Utilization-TRM-CBM

#### ש TTC

 Total Transfer Capability - Includes reduction for Normal Operating Margin

#### **■** Transmission Interface Flow Utilization

 Interface flow from NYCA Generation Commitment, Served Load Pattern, and Accepted External Control Area Transactions.

#### ש TRM

 Applied to Non Firm Transaction evaluations only

#### **∠** CBM

Not applied

<u>Note</u>: Scheduling of firm counter flow externals create the equivalent of increased capacity on the interface and will be reflected in the Interface Flow Utilization.

## **ATC/TTC Postings**



Transfer Limit Report	SCUC Posting	BME Posting
Next 30 Days for scheduled outages	Daily - Hourly for the next day (24 hours)	Hourly, updated for the next 3 hours, 30 Min. before the hour

#### Note that:

- 1) Transfer Limit Report shows TTC w/all lines in and the reduced TTC corresponding to each outage.
- 2) Day-Ahead prices are calculated on the Bid Load and Day-Ahead ATC is based on the Forecast Load.
- 3) In-Day hourly ATC/TTC values are calculated using Actual and Scheduled Outages at the time BME is run.

### **Planned Enhancements**

- צ Posting of paths In, Out and Through
  - Currently only post ATC/TTC Into NY
- **№** Posting Forecast ATC/TTC
  - Out as far as two years
- Posting of consistent values on Control Area Ties
  - Participating in the NPCC ATC Working Group

## **NPCC** Initiatives

- **№ NERC Compliance Requirements**
- **№** Regional Methodology
  - Posted in Open Process for comment
- Posting of consistent values on Control Area Ties
  - NPCC proposal
  - Working to develop a site where a single TTC/ATC would be posted for common C/A interfaces.